

Abundance and Run Timing of Adult Pacific Salmon in the East Fork Andreafsky River, Yukon Delta National Wildlife Refuge, Alaska 2003.

A resistance board weir was used to collect abundance, run timing, and biological data from salmon returning to the East Fork Andreafsky River, a tributary to the lower Yukon River, between June 19 and September 15, 2003. In 2003, an estimated total of 4,336 Chinook salmon *Oncorhynchus tshawytscha* migrated through the weir. The run timing was one day early compared to the 1994-2002 average. Five age groups were identified from 534 Chinook salmon sampled with age 1.3 (50%) dominating. The sex ratio was 46% female, 54% male. The mean length for females was 781 mm, range 410 mm to 955 mm, and the mean length for males was 677 mm, range 380 mm to 1,010 mm. An estimated total of 22,461 chum salmon *O. keta* migrated through the weir. The run timing was 4 days late compared to the 1994-2002 average. Four age groups were identified from 1,128 chum salmon sampled, with age 0.3 (75%) dominating. The sex ratio was 43% female, 57% male. The mean length for females was 522 mm, range 425 to 625 mm, and the mean length for males was 568 mm, range 475 mm to 685 mm. An estimated total of 8,231 coho salmon *O. kisutch* migrated through the weir. The run timing was comparable to the 1995-2002 average. Three age groups were identified from 602 coho salmon sampled, with age 2.1 (78%) dominating. The sex ratio was 51% female, 49% male. The mean length for females was 556 mm, range 400 to 670 mm, and the mean length for males was 558 mm, range 385 mm to 670 mm. An estimated total of 494 sockeye salmon *O. nerka* and 4,303 pink salmon *O. gorbuscha* migrated through the weir. Other species counted through the weir during 2003 included 1,936 whitefish Coregoninae, 16 Dolly Varden *Salvelinus malma*, 4 Arctic grayling *Thymallus arcticus*, and 1 northern pike *Esox lucius*.

Citation: Gewin, C.S. and VanHatten, G. K. 2005. Abundance and Run Timing of Adult Pacific Salmon in the East Fork Andreafsky River, Yukon Delta National Wildlife Refuge, Alaska, 2003. U.S. Fish and Wildlife Service. Fairbanks Fish and Wildlife Field Office, Alaska Fisheries Data Series Number 2005-10, Fairbanks, Alaska.